

Date: Wed, 29 Sep 93 20:06:52 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1155
To: Info-Hams

Info-Hams Digest Wed, 29 Sep 93 Volume 93 : Issue 1155

Today's Topics:

 Daily Solar Geophysical Data Broadcast for 29 September
 Freebies from ARRL HQ
 HDN Releases
 How to Measure Q
 HTs Airlines and Morris
 I bet you've never heard this one
Looking for good source of 6146 tubes - and other 6146 questions...
 MORE freebies from ARRL HQ
 Numbers Stations Info: ENIGMA Newsletter Issue 3
 Packet questions???

 Regenerating PL tones thru a repeater.
 Selling license info (was: Re: 6 weeks 1 day!)
 Stop hunter Harrassment in Michigan

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 30 Sep 93 02:53:20 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 29 September
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 272, 09/29/93
10.7 FLUX=116.4 90-AVG=093 SSN=079 BKI=1134 3433 BAI=015
BGND-XRAY=B5.0 FLU1=1.6E+06 FLU10=1.1E+04 PKI=1134 4433 PAI=015
 BOU-DEV=008,007,032,046,027,052,020,020 DEV-AVG=026 NT SWF=00:000
XRAY-MAX= C1.2 @ 1513UT XRAY-MIN= B3.7 @ 0647UT XRAY-AVG= B6.2

NEUTN-MAX= +001% @ 2200UT NEUTN-MIN= -003% @ 0610UT NEUTN-AVG= -0.4%
PCA-MAX= +0.0DB @ 2355UT PCA-MIN= -0.4DB @ 1850UT PCA-AVG= -0.0DB
BOUTF-MAX=55363NT @ 2359UT BOUTF-MIN=55319NT @ 1713UT BOUTF-AVG=55351NT
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+064,+000,+000
GOES6-MAX=P:+118NT@ 1559UT GOES6-MIN=N:-062NT@ 0930UT G6-AVG=+083,+006,-042
FLUXFCST=STD:115,110,110;SESC:115,110,110 BAI/PAI-FCST=016,025,020/025,025,012
KFCST=1122 2111 3344 4333 27DAY-AP=005,034 27DAY-KP=1112 2221 3355 5445
WARNINGS=*MAJFLR;*SWF
ALERTS=**245STRM:0000-2359UTC
!!END-DATA!!

NOTE: The Effective Sunspot Number for 28 SEP 93 was 40.0.
The Full Kp Indices for 28 SEP 93 are: 1o 1o 1- 3- 2+ 2o 3- 2+

Date: 29 Sep 93 13:55:58 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: Freebies from ARRL HQ
To: info-hams@ucsd.edu

Interested in the Amateur Radio Service, but don't
know where to turn to locally for assistance?

Well, one of the very best ways to get a local helping
hand is to establish a relationship with your local
Amateur Radio club. And most areas of the country have
more clubs than you'd think possible.

Ah, but the eternal question is always "Say, just how
DO I contact an Amateur Radio club near me?"

Well, folks, do I have a deal for you!

For the price of a message to me here at ARRL HQ,
(SEEMS cheap enough!) and a specific request, I can get
you listings of more clubs than you'd ever want to visit.

To make it happen, please send me a message with your
name, your mailing address, and a specific request for the
Amateur Radio clubs in your area. I'll get them right out
to you.

And for those of you who are already licensed radio
amateurs, remember, your local clubs represent an ENORMOUS
resource for you.

Having trouble with TVI or local ordinances that

affect your capability to serve the public by way of your Amateur Radio license? Interested in finding someone to assist with a tower installation? Need to locate a kindred spirit that understands YOUR concerns about Amateur Radio satellite operation or digital networking via Amateur Radio? Chances are that someone in your club can help.

Another free service, brought to you by the world's largest support organization for the Amateur Radio Service -- the American Radio Relay League.

			Deputy Manager, Field Services, ARRL.
			The ARRL Amateur Radio Emergency Service, the ARRL
	uck		urder
-----			National Traffic System, The Amateur Auxiliary to
			the FCC's Field Operations Bureau, the ARRL
	KY1T		Field Organization and the ARRL Monitoring System.

lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

Date: 29 Sep 93 17:19:25 GMT
From: idacrd.ccr-p.ida.org!idacrd!n4hy@uunet.uu.net
Subject: HDN Releases
To: info-hams@ucsd.edu

I just tried this and got:

** The FidoNet FileBone files have been *MOVED* to **
*** ftp.fidonet.org [140.98.2.1] ***

Please access them there.

I think you should be more careful before making these announcements.

Bob

--

Robert W. McGwier | n4hy@ccr-p.ida.org
Center for Communications Research | Interests: amateur radio, astronomy, golf
Princeton, N.J. 08520 | Asst Scoutmaster Troop 5700, Hightstown

Date: Wed, 29 Sep 1993 09:47:37 GMT
From: usc!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!hpscit.sc.hp.com!
hp!extra!hplb!hpwin052!hpqmoa!dstock@network.ucsd.edu
Subject: How to Measure Q
To: info-hams@ucsd.edu

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

(edits)

: Well, if the dip meter has a trustworthy dip indicator, and has a
: drive port for a frequency counter, you can get Q by knowing that
: $Q = F_o / BW$ where F_o is the frequency of maximum dip and BW is the
: width to the 3 db points on either side of max dip. For example,
: if dip occurs at 1 MHz and the dip indicator shows a 1/2 power
: change at +/- 10 kHz, then the Q is 50. Obviously you need to
: use a high Q capacitor across the inductor to achieve resonance.
: Normally the capacitor's Q will be high enough that only the
: Q of the inductor is being measured.

: Gary

The problem is that dip meter's indication has no predictable law, I don't think I've ever heard of one with any amplitude calibration at all. If you knew where on the scale the half power level is compared to the peak level, this method would work.

With a bog-standard made for the amateur market dipper, you have no chance of measuring Q. Experienced users can get a feel for the sharpness of the dip, and can tell high Q from low Q resonances, but that is about all you can reasonably expect.

There are such things as Q meters. Professional machines now showing up on the surplus market. The venerable Boonton ones are well respected. These devices work on the general principle of applying a little current into the tank circuit from a VERY low source impedance, and measuring the voltage across the L or C using a very high Z RF voltmeter. The dual of this, applying a voltage to the tank from a high Z source and measuring the circulating current with a very low Z RF ammeter will also work. Basic teaching always says that parallel tuned circuits are infinite Z at resonance, and series ones are zero Z at resonance. This is only true for ideal circuits. For real world circuits, how close they approach this ideal is a measure of their Q.

The old Marconi Instruments "Circuit Magnification Meter" is a monstrous looking object, to strike fear into novice onlookers, but it

is superb, sometimes seen surplus from traders who do not know its worth. These instruments are much better at handling high Q components than the classical RF component bridges of the same period.

If you do see one of these for sale, and you want to get full use out of it, look for the matching sets of very high Q standard inductors.

Full of valves (toobs) these things are treated as boat-anchor scrap by an increasing number of traders. Those in the know set very high prices. This is a rewarding area for a little careful shopping.

Hope this helps a bit

David GM4ZNX

Date: 29 Sep 93 00:48:42 GMT
From: microsoft!wingnut!edmitch@uunet.uu.net
Subject: HTs Airlines and Morris
To: info-hams@ucsd.edu

I don't understand: Its now standard procedure for the captain or lead flight attendant to announce that all types of transmitting equipment, plus a whole bunch of others now (like notebook computers and CDs which have been specifically listed on the intercom) are not be used either at all or during the take off and landing phase of the flight. Their concern is with use of cellular phones on aircraft - which would be far more of a problem than the few hams who carry HTs.

Oh, I flew Morris Air from Seattle to San Jose 3 weeks ago. In my daypack I had an IC W2A plus extra battery, a Yaesu FT727 plus 3 extra batteries, plus 12 v DC power cord adaptor, plus a folded 5/8 wave 2m vertical and mag mount, plus a 486 notebook computer and extra battery and a pager on my hip. Pretty electronically eccentric, I think.

Now for the funny part: After running my bag through x-ray, the security guard asked me to demonstrate that the pager worked! Didn't ask any questions about all the other junk I was carrying.

Oh well.

Ed, KF7VY

Date: Wed, 29 Sep 1993 10:12:10 GMT
From: usc!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!hpscit.sc.hp.com!

hplextra!hplb!hpwin052!hpqmoea!dstock@network.ucsd.edu
Subject: I bet you've never heard this one
To: info-hams@ucsd.edu

One bit of advice well worth considering:

DONT RUSH OUT AND BUY A NEW RIG.

Find something old, second-hand and above all, cheap. Don't bother about dual band stuff yet.

Play with it, use it for a few months, meet some folk on the air. Find out in the most personal, and convincing way possible what you love and loathe about your cheap radio.

When you decide to buy your new one, you have something to compare it against, you can segregate useless features from ones you would use. The threatened price rises are trivial compared to the loss you take if you don't like a new radio and decide to change.

There are two good jokes:

- 1) you should be able to sell your cheap radio for what you paid for it. Zero cost learning ! these things are on price floors.
- 2) you may choose to keep the oldie. The new ones with XXX MHz of scanning, very low battery consumption etc have sacrificed RF performance for it. In busy areas, with lots of neighbouring frequencies in use, you will find that the most effective radios are either modified professional jobs (motorola etc.) or are old models long out of production. Just think of feature laden cars powered by lawnmower motors in a world where you could buy a second hand Porsche 911 for a fraction of the price, and you will be close to understanding the hand-held market. This criticism does not apply to HF base equipment, just VHF/UHF portables.

Hope this helps a bit,

David GM4ZNX

Date: 29 Sep 93 14:04:09 EDT

From: psinntp!arrl.org@uunet.uu.net
Subject: Looking for good source of 6146 tubes - and other 6146 questions...
To: info-hams@ucsd.edu

Date: 29 Sep 93 13:56:52 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: MORE freebies from ARRL HQ
To: info-hams@ucsd.edu

A reminder to all that the American Radio Relay League continues to make available to Amateur Radio Operators and non-amateurs alike a wide variety of free materials and services. Of particular interest to the not-yet-licensed individual would be the ARRL Prospective Ham Package. In the PHP, one would find:

-
- 1. Printouts of Volunteer Examination session opportunities in his/her area.
-
- 2. Listings of Amateur Radio clubs in his location.
-
- 3. Helpful promotional material about the Amateur Radio Service.
-

The already-licensed individual might well be interested in another free ARRL publication, the ARRL Public Service Communications Manual. The PSCM represents the "bible" of public service communications, and clearly/concisely points out how the ARRL National Traffic System and the ARRL Amateur Radio Emergency Service function as a cohesive unit to provide the maximum support to the public both in times of disaster as well as "normal" times.

-
To obtain any of these free ARRL services, please provide me with:

-
- A. Your name
- B. Your mailing address
- C. A Specific request for either of the two services above.
-

| | | Deputy Manager, Field Services, ARRL.

| |____| The ARRL Amateur Radio Emergency Service, the ARRL
| uck | |urder National Traffic System, The Amateur Auxiliary to
----- | | the FCC's Field Operations Bureau, the ARRL
 KY1T Field Organization and the ARRL Monitoring System.

lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
 MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
 Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

Date: Wed, 29 Sep 1993 16:08:33 GMT
From: swrinde!cs.utexas.edu!usc!howland.reston.ans.net!pipex!uknet!root44!praxis!
mikec@network.ucsd.edu
Subject: Numbers Stations Info: ENIGMA Newsletter Issue 3
To: info-hams@ucsd.edu

"Achtung"
"Achtung"

Numbers Fans!

Issue 3 of ENIGMA, the journal of The European Numbers Information
Group and Monitoring Association has just been published.

In Issue 3 you'll find:

- * Details of how to order Simon Mason's excellent book
 "Secret Signals (The Euro Numbers Mystery)"
- * Letters from Numbers Stations monitors around the world
- * The "Tyrolean Music" Numbers Station - A retrospective
- * Station News and Latest Monitoring Data
 - * The Lincolnshire Poacher
 - * The US Counting Stations
 - * Station NNN
 - * The 3 Tone Oddity
 - * The Five Dashes Station
 - * Station Strich
 - * Spanish Numbers Stations
 - * Bulgarian Betty
 - * Czech Station OLX - with a complete transmission schedule
- * "The German Two Letter Stations" an article from Simon Mason.
 This includes a complete transmission schedule for these stations

as compiled for ENIGMA member's logs - callsigns, times and the frequencies used.

- * A detailed look at the Female Phonetic Alphabet Stations which are apparently operated by Mossad, the Israeli Intelligence Service.
- * Detailed time and frequency information for each of the stations featured including North American monitoring data as well as that from Europe.

If you are in any way interested in Numbers Stations, then this is *the* definitive, up-to-the-minute guide for you - look no further. A copy of ENIGMA 3 can be obtained by post from:

Chris Midgley
195 Roberttown Lane
Roberttown
Liversedge
West Yorkshire
WF15 7LG
United Kingdom

The journal is still free of charge but return postage or IRCs and a small donation would be appreciated. Please do not send any return envelopes with your request!

ENIGMA is working towards an electronically produced issue which can then also be distributed via UseNet but for the time being, get your paper copy direct from Chris - it's well worth it.

Magazines, DX Clubs and other interested groups can also request a "flyer" from Chris, which will tell you about ENIGMA, the group and its aims. We would be very interested to hear from you and thereby perhaps spread the coverage of our monitoring activities. I also have an electronic copy of the flyer for those requesting it direct from here.

Meanwhile, I will be happy to co-ordinate the electronic side of things here on UseNet. Any reference material, archive articles and logs sent to me will be passed on to Chris for inclusion into the newsletters.

You can reach me via Internet e-mail at:

Mike Chace <mikec@praxis.co.uk>

Thanks & 73, Mike

"Ende"

"Ende"

Date: 29 Sep 93 23:25:21 GMT
From: ogicse!hp-cv!sdd.hp.com!spool.mu.edu!uwm.edu!csd4.csd.uwm.edu!
pachner@network.ucsd.edu
Subject: Packet questions???
To: info-hams@ucsd.edu

I would have posted this to the r.r.a.digital, but my system won't let me.

I just purchased a Kantronics Kam, and I hooked it up and even connected to a station. But now after it connects, what can I do. I tried different things, but couldn't accomplish much. Any advice would be helpful.

--

Thomas Jay Pachner ==- Music Major, Bassist, Gamer, and Amateur Operator
University of Wisconsin - Milwaukee - pachner@csd4.csd.uwm.edu
BARNEY MUST DIE!!!!!!!!!!
Amateur Call Sign: N9UUJ - took 72 days

Date: Tue, 28 Sep 93 21:56:33 PDT
From: agate!dog.ee.lbl.gov!newshub.nosc.mil!crash!slic!mikey@ames.arpa
Subject: Regenerating PL tones thru a repeater.
To: info-hams@ucsd.edu

> >In article <CE1FF6.18u@ced.utah.edu> mladejov@ced.utah.edu writes:
> >>Hi
> >>Looking for some net.wisdom on how to regenerate one of several PL
> >>tones through repeaters. I am building several VHF repeaters, each of
> >>which needs to decode one of several PL tones, let's say 100.0, 110.9
> >>and 123.0Hz, and then if any of these three is detected (but not any
> >>other PL tone), it keys the transmitter, and enables the matching PL
> >>encoder so that the respective PL tone is passed out of the
> >>transmitter.

Another way to go is 3 separate decoders (say CS TS-32x series)
which have built-in encoders which can be configured to enable
the matching encode PL tone on the TX only when the a desired PL
tone is decoded. About \$60.00 each.

--

Mike Shirley San Diego, CA USA HAM:WB6WUI
mikey@slic.cts.com guaranteed: mikey@crash.cts.com
mikey-pkey@slic.cts.com will send you my PGP Public Key

pgp-info@sluc.cts.com will send you info on PGP

Date: Wed, 29 Sep 1993 15:51:08 GMT
From: brunix!pstc3!md@uunet.uu.net
Subject: Selling license info (was: Re: 6 weeks 1 day!)
To: info-hams@ucsd.edu

In article <1993Sep29.150106.13267@newsgate.sps.mot.com>,
markm@bigfoot.sps.mot.com (Mark Monninger) writes:

|> That's interesting. Which VEC handled your upgrade? I think it would be illegal
|> for the VE's to sell that info (I guess they could give it away, tho) but I
|> don't think it would be illegal for the VEC to do so (unethical, maybe).

Can't remember offhand, I believe it was W5YI, but it could have been
ARRL too (some VEs in the area use W5YI CSCEs even though the test session
is a "ARRL" VE session...)

My very good friend Ed Hare at the ARRL informed me the last time we had
supper that to the best of his knowledge the ARRL doesn't do this. Of
course, I have complete faith in Ed, and have no reason to believe that
the policies of the ARRL are other than that which he states (although
I do know they enter the data into a computer, apparently, since I
believe this was one reason Bart Jahnke said, some time ago, that
the ARRL VEC was slow in processing paperwork).

Of course, I have always likened the ARRL to the Kremlin of
amateur radio, so I suppose that the league's KGB division could
actually be planting disinformation as part of their
counterintelligence operations.....

MD

--
-- Michael P. Deignan
-- Population Studies & Training Center
-- Brown University, Box 1916, Providence, RI 02912
-- (401) 863-2668

Date: Wed, 29 Sep 1993 22:06:58 GMT
From: elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!
jholly@decwrl.dec.com
Subject: Stop hunter Harrassment in Michigan
To: info-hams@ucsd.edu

Scott Wood (swood@vela.acs.oakland.edu) wrote:

: Last year was the first test of the new Michigan Hunter Harrassement
: legislation. This year is bound to be fraught with its share of activism.

: If you are interested in helping out in the fight to stop the intentional
: intervention (without respect to the law) in a legal and ethical
: activity in the state of Michigan, I implore you to contact me for
: more information.

[boring stuff deleted]

: hunter's "flame" orange

: Scott Wood
: (313) 394-0351 PPF Detroit

ahhh, errrr, is this about cordless tech? Must be, something about flame
was mentioned. What do cordless techs hunt? Do they hunt poor'ole Morris?
Do they hunt old farts? Maybe poor little defenseless dits and dahs.

Ahhh Hahhhhhh, It took me a minute....this is really you, isn't Derek.

Jim Hollenback, WA6SDM
jholly@cup.hp.com

Date: (null)
From: (null)
Prepared as a membership service by the American Radio Relay League,
Inc., Technical Information Service, 225 Main St., Newington, CT 06111
(203) 666-1541. Email: tis@arrl.org (Internet).

file: \public\info\tis\tubes.txt updated: June 17, 1993

Thank you for requesting the following information from the ARRL
Technical Information Service or the ARRL Automated Mail Server
(info@arrl.org). ARRL HQ is glad to provide this information free
of charge as a service to League members and affiliated clubs.

For your convenience, you may reproduce this information,
electronically or on paper, and distribute it to anyone who needs
it, provided that you reproduce it in its entirety and do so free
of charge.

If you have any questions concerning the reproduction or distribution of this material, please contact Ed Hare, American Radio Relay League, 225 Main St., Newington, CT 06111 (email: ehare@arrl.org).

List of Companies That Sell Vacuum Tubes:

Antique Electronic Supply (Antiques, Components, Kits)
6221 S. Maple Avenue
Tempe, AZ 85283
1-602-820-5411

Cetron Communications Division
715 Hamilton St
Geneva, IL 60134
1-708-208-3700

Elmira Electronics
P.O. Box 4230 Southside Station
Elmira, NY 14904
1-607-734-6114

Fair Radio Sales
Box 1105
Lima, OH 45802

Fala Electronics
P.O. Box 1376
Milwaukee, WI 53201

International Components Corp
105 Maxess Road
Melville, NY 11747
1-800-645-9154

Kirby
298 West Carmel Drive
Carmel, IN 46032
1-317-843-2212

LTA Industries, Inc.
P.O. 92
Canfield, Ohio 44406
1-216-533-0087

Ocean State Electronics (Amateur Components, QST Kits)
P.O. Box 1458

Westerly, RI 02891
1-800-866-6626

Penta Labs/ Jolida Inc.
1-800-783-2555

RF Gain, Ltd/ Richardson
116 South Long Beach Rd.
Rockville Centre, NY 11570
1-800-348-5580

RF Parts
1320 Grand Avenue #16
San Marcos, CA 92069
1-800-737-2787

R&L Electronics
Miamisburg, Ohio
1-800-221-7735

Southern Radio Supply
1909 Tulane Avenue
New Orleans, LA 70112
1-504-524-2343

Steinmetz Electronics
7519 Maplewood Ave
Hammond, IN 46324
1-219-931-9316

United Page (Out of Business?)
481 Getty Ave.
Patterson, NJ 07503
1-201-279-7500

Unity Electronics
Dept. H
P.O. Box 213
Elizabeth, NJ 07206

Varian Associates, Inc
301 Industrial Way
San Carlos, CA 94070-2682
1-800-432-4422

VRS(QS) (Antiques, Schematics, Literature)
P.O. Box 541
Goffstown, NH 03045

The ARRL members and HQ staff would like to thank the following people for their contributions to this information file:

WA1SVF

Send any additional information or changes to ehare@arrl.org.

73 from ARRL HQ.

Ed Hare, KA1CV
American Radio Relay League
225 Main St.
Newington, CT 06111
(203) 666-1541 - voice
ARRL Laboratory Supervisor
RFI, xmtr and rcvr testing

ehare@arrl.org

The opinions expressed in my posts do not necessarily represent League policy, but I can probably get in trouble for them anyway.

Date: 29 Sep 1993 16:59:19 -0700

From: news.service.uci.edu!paris.ics.uci.edu!not-for-mail@network.ucsd.edu

To: info-hams@ucsd.edu

References <9309201526.AA20067@ucsd.edu>, <27prbiINN51k@altair.cs.unc.edu>, <1163@auratek.COM>p

Subject : Re: New HF Rig

In <1163@auratek.COM> epacyna@auratek.COM (Edward Pacyna) writes:

>In article <27prbiINN51k@altair.cs.unc.edu>, nick@cs.unc.edu (Nick England) writes:

>>

>> Hear, hear !! I am one among many very happy OMNI VI owners. Ten Tec has

.....

> The good news is the good service.....the bad news is that your going
> to have to use it (quality, electrical design?).

Hmmm....Ed, I really respect your opinions and knowledge....but I have found through extensive experience with Ten Tec rigs (presently an OMNI-C and a Corsair, started with them back in the early '70's with an Argo 505) that they hold up as well or better than any Japanese rigs I have owned (like my present TS 440, 530, former 520, etc). I have had good experience with Kenwood service, BTW. Ten Tec is much more helpful and open when I have a problem or question, though.

Anyway, I do not find Ten Tec lacking in quality (design is not something I can judge at a high level, but I am a demanding user!) in any respect at all. The Japanese rigs are pretty neat, and I like them, too, but I do NOT find them to be better in basic performance. (IF auto tuners, built in power supplies are important, well.....Ten Tec doesn't do it).

Just my opinion.

Clark
WA3JPG

End of Info-Hams Digest V93 #1155
